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(21) International Application Number: PCT/US96/06609 (22) International Filing Date: 8 May 1996 (08.05.96) (30) Priority Data: 08/437,834 8 May 1995 (08.05.95) US (71) Applicant: CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94698 (US). (72) Inventors: GIESE, Klaus, W.; 1365 - 9th Avenue #6, San Francisco, CA 94122 (US). WILLIAMS, Lewis, T.; 3 Miraflores Lane, Tiburon, CA 94920 (US). (74) Agents: GREEN, Grant, D. et al.; Chiron Corporation, Intel- lectual Property - R440, P.O. Box 8097, Emeryville, CA 94662-8097 (US).	(81) Designated States: AU, CA, CN, JP, MX, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.	
(54) Title: NUCLEIC ACIDS FOR TREATING OBESITY (57) Abstract <p>A nucleic acid molecule is provided that can be expressed in a host cell to produce a biologically active ob polypeptide that can effectively inhibit food intake and/or weight gain. Vectors and host cells containing the nucleic acid molecule are also provided, as well as methods for producing the ob protein and other ob polypeptides, methods of induction of the production of the ob polypeptides, such as by <i>in vivo</i> or <i>ex vivo</i> gene therapy, and methods for inhibition of food intake and/or weight gain. Further provided are antibodies to the ob polypeptides and methods of using such antibodies, such as for identification or detection of other ob polypeptides or homologs thereof, and for inhibition of ob polypeptide activity. A method for identification, detection, or isolation of an ob receptor is provided as well as methods for production of antibodies to the ob receptor. The antibodies and polypeptides herein can be incorporated in kits for immunoassays. Pharmaceutical compositions containing the ob polypeptide and antibodies to the ob polypeptide or to the ob receptor can be used for administration to animals and humans.</p> <div style="text-align: center; margin-top: 200px;"> BEST AVAILABLE COPY </div>		